

**Amendments to the Specification:**

1. Page 1, before first paragraph, but after the title, insert the following:

**---CROSS-REFERENCE TO RELATED APPLICATIONS**

The present application is a U.S. National Stage of International Application No. PCT/EP2005/051283, filed March 21, 2005, which claims priority under 35 U.S.C. § 119 of German Patent Application No. 10 2004 017 811.9, filed April 13, 2004.

**BACKGROUND OF THE INVENTION**

1. Field of the Invention---;
2. Page 1, at line 8, insert the following:  
  
---2. Discussion of Background Information---;
3. Page 2, at line 5, insert the following:

**---SUMMARY OF THE INVENTION**

The present invention provides a heated cylinder including a cylinder sleeve having at least one inner sleeve layer and one outer sleeve layer, where the at least one inner sleeve layer and one outer sleeve layer are separated from each other by a hollow space into which the fluid can be introduced.

In one embodiment of the present invention, the inner sleeve layer is thicker than the outer sleeve layer. In another embodiment, the outer sleeve layer has a wall thickness from 8 to 15 mm.

In one embodiment of the present invention, the fluid introduced into the hollow space can be steam, and the steam can have a positive pressure of between 2 and 13 bar.

In one embodiment, the heated cylinder further includes a rib structure selected from at least one of ribs extending in axial or circumferential direction or having a helical shape, a honeycomb structure, or a lattice structure, and wherein the ribs are formed on to the inner surface of the outer sleeve layer facing the hollow space.

In one embodiment of the present invention, the rib, honeycomb or lattice structure includes a material with a high thermal conductivity. In one embodiment, the surface area of the rib, honeycomb or lattice structure is ten to one hundred times greater than the inner surface of the outer sleeve layer. In yet another embodiment, the surface of the rib, honeycomb or lattice structure on the inner side of the outer sleeve layer at the circumferential end becomes smaller near the end faces of the cylinder.

In one embodiment of the present invention, the outer sleeve layer includes a material with a high thermal conductivity, for example copper or aluminum. In another embodiment of the present invention, the outer sleeve layer includes boiler steel.

In yet another embodiment of the invention, the inner sleeve layer has a high modulus of elasticity.

In one embodiment of the present invention, the pipes between the inner and the outer sleeve layer are connected via rotary bushings to a fixed steam supply or an exhaust steam and condensed water tank.

In one embodiment of the present invention, the inner sleeve layer includes a rigid core which absorbs loads acting on the outer sleeve layer. In yet another embodiment,

the inner and the outer sleeve layer are connected by at least one of bars, pins, screws, and rivets.

In one embodiment of the present invention, the heated cylinder further includes platelets attached between the inner and the outer sleeve layer. In one embodiment, the platelets are arranged parallel to each other, crosswise, helically, or in a honeycomb or lattice structure. In another embodiment, the platelets have a flat or a profiled surface. In yet another embodiment, the platelets become wider in the direction of the outer sleeve layer. In one embodiment, the platelets are arranged in an axial direction of the cylinder.

The present invention provides a heated cylinder including one outer cylinder sleeve, where the outer cylinder sleeve is supported by struts inside the heated cylinder.

The present invention also provides a machine for producing and/or refining a paper web, cardboard web, tissue web or some other fiber web, including the heated cylinder according to the present invention.

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4. Page 6, line 31, insert and center the following:

---BRIEF DESCRIPTION OF THE DRAWINGS---

5. Page 7, line 8, insert and center the following:

---DETAILED DESCRIPTION OF THE INVENTION---